

## ABSTRACT

The method of fabricating a suspended microstructure with a sloped support, comprises the steps of (a) providing a member having three stacked up layers including a first substrate layer, a second temporary layer and a third photoresist layer; (b) photolithographically transferring a sloped pattern to the third photoresist layer by means of a grey scale mask; (c) etching the second layer through the third layer resulting from step (b) to obtain a surface with at least one continuous slope with a predetermined angle with respect to the first surface layer; (d) depositing a fourth layer on the previous layers; (e) etching the fourth layer to obtain the sloped support; and (f) removing the second layer to obtain the microstructure with the sloped support. The invention is also concerned with a suspended microstructure fabricated by the method.

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